Xenon

Directions for use
690675.01

QUICKIE®

For visually impaired people, you will find information on our website (www.SunriseMedical.com).

Foreword

Dear Customer,

We are very pleased that you have decided in favour of a high-quality SUNRISE MEDICAL product.

This Owner's manual will provide numerous tips and ideas so that your new wheelchair can become a trustworthy and reliable partner in your life.

Maintaining close ties to our customers means a lot to us at Sunrise Medical. We like to keep you up-to-date about new and current developments at our company. Keeping close to our customers means: fast service, as little red tape as possible, working closely with customers. When you need replacement parts or accessories, or if you just have a question about your wheelchair – we are there for you.

We want you to be satisfied with our products and service. At Sunrise Medical we are constantly working to develop our products further. For this reason, changes can occur in our palette of products with regard to form, technology, and equipment. Consequently, no claims can be construed from the data or pictures contained in this owner's manual.

The management system of SUNRISE MEDICAL is certified to DIN EN ISO 9001, ISO 13485 and ISO 14001.

As the manufacturer, SUNRISE MEDICAL, declares that the lightweight wheelchairs conform to the 93/42/EEC 2007/47/EEC guideline.

Please contact your local, authorised SUNRISE MEDICAL dealer if you have any questions regarding the use, maintenance or safety of your wheelchair.

In case there is no authorised dealer in your area, or you have any questions, contact Sunrise Medical either in writing or by telephone.

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IMPORTANT:
DO NOT USE YOUR WHEELCHAIR UNTIL THIS MANUAL HAS BEEN READ AND UNDERSTOOD.

Use

Wheelchairs are exclusively for a user who is unable to walk or has limited mobility, for their own personal use, when self-propelling and being moved by a third party (pushed by attendant) within the home and outdoors.

The maximum weight limit (includes both the user and any weight of accessories fitted to the wheelchair) is marked on the serial number label, which is affixed to the cross-brace or the stabilising bar under the seat.

Warranty can only be issued if the product is used under the specified conditions and for the intended purpose.
The expected life of the wheelchair is 5 years.
NO NON-STANDARD PARTS are to be fitted, other than those officially approved by Sunrise Medical.

Area of Application.

The variety of options as well as the modular design means that it can be used by those who cannot walk or have limited mobility because of:

- Paralysis
- Loss of extremity (leg amputation)
- Extremity defect/deformity
- Joint contractures/joint injuries
- Illnesses such as heart and circulation deficiencies, disturbance of equilibrium or cachexia as well as for elderly people who still have strength in the upper body.

When considering provision, please also note the body size, weight, physical and psychological constitution, the age of the person, living conditions and environment.

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Definitions

3.1 Definitions of words used in this manual

Word	Definition
⚠ **DANGER!**	Advice to the user of Potential Risk of serious injury or death if the advice is not followed
⚠ **WARNING!**	Advice to the user of a potential risk of injury if the advice is not followed
⚠ **CAUTION!**	Advice to user that potential damage to equipment may occur if the advice is not followed
NOTE:	General advice or best practice
	The wheelchair is not designed to be a seat during transportation.
	Reference To Additional Documentation

NOTE:
The wheelchairs shown and described in this user guide may not correspond in every detail exactly to your own model. However, all instructions are completely relevant, regardless of possible detail differences.
The manufacturer reserves the right to alter without notice any weights, measurements or other technical data shown in this manual. All figures, measurements and capacities shown in this manual are approximate, and do not constitute specifications.

NOTE:
Please keep a note of your local service agent's address and telephone number in the space provided.
In the event of a breakdown, contact them and try to give all relevant details so they can help you quickly.

Dealer signature and stamp

General Safety Notes and Driving Limits

⚠ WARNINGS!

The construction of this wheelchair, as well as the technology used, are designed to give the maximum level of safety. International safety standards currently in force have either been fulfilled or exceeded in parts. Nevertheless, users may put themselves at risk by improperly using their wheelchairs. For your own safety, the following rules must be observed.

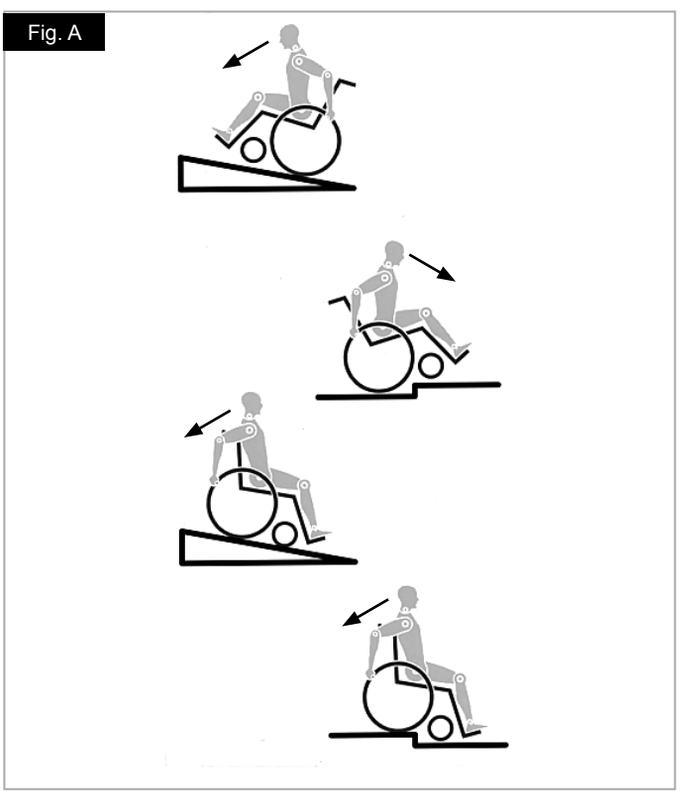
Unprofessional or erroneous changes or adjustments increase the risk of accident. As a wheelchair user, you are also part of the daily traffic on streets and pavements, just like anyone else. We would like to remind you that you must comply with any relevant traffic laws and pedestrian restrictions.

Be careful during your first ride in this wheelchair. Get to know your wheelchair.

Before each use, the following should be checked:
• Quick-release axles on the rear wheels
• Velcro on seats and backrests
• Tyres, tyre pressure, and wheel locks.

Before changing any of the adjustments of this wheelchair, it is important to read the corresponding section of the Owner's manual.

Fig. A



⚠ WARNINGS!

- **Maximum weight limit: 125 kg. Please note the weight information for lighter weight options, which are quoted separately.**

- This wheelchair should be used exclusively to convey one person at a time. Any other use does not comply with the intended purpose.
- Your wheelchair has not been designed for transportation in a vehicle. DO NOT sit on the wheelchair during any transportation in a vehicle; always use a properly secured vehicle seat!!
- Your wheelchair is not designed to be a seat during transportation.
- Only permanently installed seats and safety belts will offer sufficient protection in hazardous situations.
- When vehicles are in motion, unoccupied wheelchairs should be secured using appropriate means.
- Before changing any of the adjustments of this wheelchair, it is important to read the corresponding section of the Owner's manual.
- It is possible that potholes or uneven ground could cause this wheelchair to tip over, especially when riding uphill or downhill (Fig. A).
- When riding over a step or up an incline frontally, the body should be leaning forward, (Fig. A).

⚠ DANGER!

- Secure your wheelchair on uneven ground or when transferring (e. g. into a car) by using the brakes.
- For thigh amputees you must position the rear wheels towards the back and/or use anti-tip tubes.
- With active centre of gravity adjustment, the wheelchair may tip over, so anti-tip tubes should be used.
- This product has been tested to a maximum speed of 10kph. At higher speeds, depending on the configuration and/or physique/physical capabilities of the user, there may be unexpected castor wobble. This can lead to injury of the user.
- Before setting off, check that your tyre pressure is correct. The correct tyre pressure is printed on the edge of the wheel, for rear wheels it should be at least 3.5 bar (350 kPa).
- All brakes will only work if there is sufficient tyre pressure and if the correct setting has been made (see the Chapter on "Brakes").

⚠ DANGER!

The wheel locks are not intended to brake your wheelchair whilst it is moving. They are only there to ensure that your wheelchair does not begin rolling away. When you stop on uneven ground/floors, you should always use the wheel locks to prevent such rolling. Always apply both wheel locks; otherwise, your wheelchair could tip over.

⚠ CAUTION!

The wheel locks have not been designed to be used as brakes for a moving wheelchair.
Always make use of elevators and ramps. If these are not available, you should request the help of an attendant. They should only grip the wheelchair at securely mounted parts. If anti-tip tubes are fitted these must be folded away. A wheelchair should never be lifted with an occupant; it should only be pushed.

⚠ DANGER!

- Do not lift or carry the wheelchair by the backtubes or the pushhandles.
- If the seat and back sling are damaged, you must replace them immediately.
- Be careful with fire, in particular with lighted cigarettes, seat and back slings can catch fire. seat and back slings can catch fire.
- To avoid injuries to the hand when operating the wheelchair, grip between the rear wheel and the brake.
- Always make sure that the quick-release axles on the rear wheels are set properly. If the button on the quick-release axle is not pressed in, the rear wheel cannot be removed.

⚠ DANGER!

- In particular when using lightweight metal handrims, fingers will easily become hot when braking from a high speed or on long inclines.
- If the wheelchair is subject to direct sunlight for a long period of time, then parts of the wheelchair (e.g. frame, legrests, brakes and side guard) may become hot (>41°C).

⚠ WARNINGS!

- When using the chair outside, always wear leather gloves which will increase your grip and protect the fingers from dirt and overheating.
- The effect of the brake as well as the general driving characteristics are dependent on tyre pressure. The wheelchair is significantly lighter and easier to manoeuvre when the rear wheels are pumped up correctly and both wheels have the same pressure.
- Make sure that your tyres have sufficient tread!
- Please note that you are subject to any and all traffic laws when driving in public traffic.
- Before using the wheelchair for the first time, the user must receive the necessary instruction.
- When it is dark, please wear light clothing or clothing with reflectors, so that you can be seen more easily. Make sure that the reflectors on the side and back of the wheelchair are clearly visible. We would also recommend that you fit an active light.
- Do not use the wheelchair on slopes > 10°.
- Do not use the wheelchair on muddy or icy ground.
- Only use the wheelchair in areas which are permitted for pedestrians.
- When working with or making adjustments to your wheelchair, be careful not to get your fingers caught!

Operating conditions:
The wheelchair can be used indoors as well as outdoors on dry, relatively smooth surfaces.

⚠ WARNING!

The wheelchair should not be used in heavy rain, snow, slippery, or unsound surfaces.
Do not use the wheelchair in hazardous environments.

Guarantee

Guarantee
THIS DOES NOT AFFECT YOUR LEGAL RIGHTS IN ANY WAY.

Guarantee conditions

1) Repair or replacement is carried out by the authorised Sunrise Medical dealer.

2) To fulfil the guarantee conditions, should servicing need to be carried out on your wheelchair under this agreement, contact the designated Sunrise Medical customer service agent immediately, with precise details on the type of difficulty. Should you be using the wheelchair outside the area covered by the designated Sunrise Medical customer service agent, the work will be carried out under "guarantee conditions" by another agency as designated by the manufacturer.

3) Should a part or parts of the wheelchair require repair or replacement within 24 months (5 years for frame and cross-brace) after transfer of ownership to the original purchaser, and provided that this person is still the owner of the wheelchair, as a result of a specific manufacturing or material defect, the part or parts will be repaired or replaced free of charge if the wheelchair is returned to the authorised customer service agent.

Note: This guarantee cannot be transferred.

4) The guarantee also covers all repaired or replaced parts for the remaining period of the guarantee for the wheelchair.

5) For spare parts which are fitted after the start of the original guarantee, we give a further 24-month guarantee.

6) Consumable parts are normally excluded from the guarantee, except in the case that premature wear of the part is the direct result of a manufacturing fault. These parts include, amongst others, upholstery, tyres, inner tubes and similar parts.

7) The guarantee conditions above cover all product parts for models which were purchased at full sales price.

8) Normally we do not accept responsibility if a repair or replacement of the wheelchair is required for one of the following reasons:

a) The product or part has not been maintained or serviced in accordance with the manufacturer's recommendations as shown in the User Instructions and/ or the Service Instructions. Accessories have been used which are not specified as original accessories.

b) The wheelchair or a part of the wheelchair was damaged through neglect, accident or improper use.

c) Alterations to the wheelchair or parts, which are not in accordance with the manufacturer's specifications or the carrying out of repairs before informing the customer service agent.

Wheelchair components

1. Push handles
2. Back sling
3. Sideguard
4. Seat sling
5. Footrest
6. Castors
7. Footboard
8. Fork
9. Quick-release axle
10. Wheel locks
11. Handrim
12. Rear wheel
13. Folding bracket

Fig. B

Handling

Folding up

First remove the seat cushion from the wheelchair and flip up the (platform) footplate. Take hold of the sling or the seat tubes (Fig. 1) in the middle, from the back, and pull it upwards until the folding bracket (Fig. 2) clicks into place.

Transport

To move the mobility aid, the folded wheelchair should be lifted by holding the front part of the cross-brace and the push handles.

Unfolding

Push the release lever of the folding bracket (Fig. 3) downwards and push both frame halves apart. Then press on the seat tube (see figure). Your wheelchair is then unfolded. Now snap the seat tubing into position in the seat saddle. This can be facilitated by slightly tipping your wheelchair to the side, as this means that the weight is taken off one of the rear wheels. **Be careful not to get your fingers caught in the cross-tube assembly.** Fit the seat cushion. (Fig. 4).

Getting into your wheelchair on your own (Fig.5)
- Push the wheelchair to a wall or a solid piece of furniture;
- Apply the brakes;
- Flip the footplates up;
- The user can lower themselves into the wheelchair;
- Fold the foot plates back downwards and position your feet in front of the heel loops.

Getting out of your wheelchair on your own (Fig.6)
- Apply the brakes;
- Fold the footplates upwards with your foot;
- With one hand on the armrest, the person should bend slightly forward, to bring the body weight to the front of the seat, and then with both feet firmly on the ground and one foot behind the other, push up into the upright position.

Fig. 1

Fig. 2

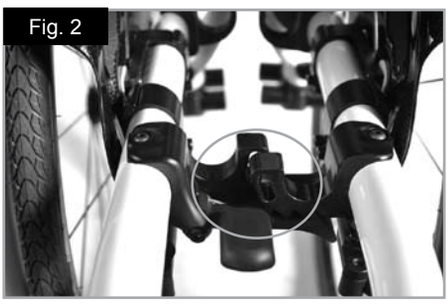


Fig. 3

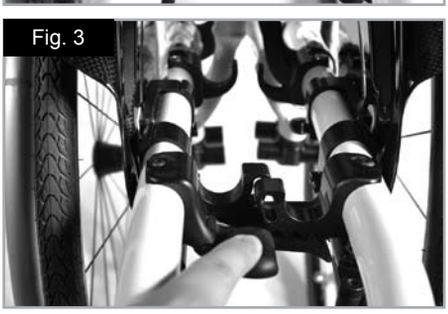


Fig. 4

Fig. 5

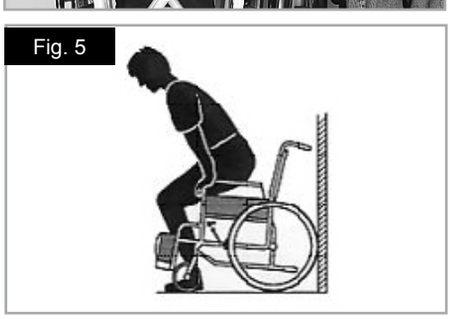
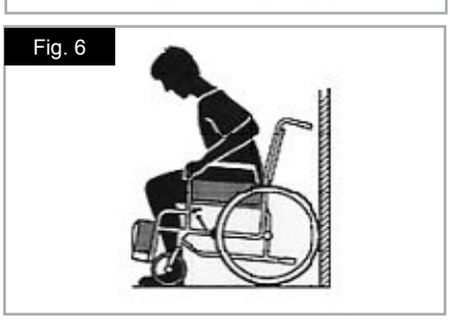


Fig. 6



Quick Release Wheels

Quick-release axles on rear wheel

The rear wheels are equipped with quick-release axles. The wheels can then be fitted or removed without using tools. To remove a wheel, simply depress the quick-release button on the axle and pull the wheel off the axle. (Fig. 7).

⚠ CAUTION!

Hold the quick-release button on the axle depressed when inserting the axle into the frame to mount the rear wheels. Release the button to lock the axle in place. The quick-release button should snap back to its original position.

Options - Step Tubes

Step tubes are used by attendants to push a wheelchair over an obstacle. Simply step on the tube to push a wheelchair, for example, over a kerb or step, (Fig.8).

Options - Brakes

⚠ CAUTION!

Braking power can be affected by incorrect fitting and adjustment of the brakes, as well as tyre pressure which is too low.

Wheel locks

Your wheelchair is equipped with two wheel locks. They are applied directly against the tyres. To engage, press both brake levers forward against the stops. To release the locks, pull the levers back to their original positions.

Braking power will decrease with:

- Worn tyre tread
- Tyre pressure that is too low
- Wet tyres
- Improperly adjusted wheel locks.

The wheel locks have not been designed to be used as brakes for a moving wheelchair. The wheel locks should therefore never be used to brake a moving wheelchair. Always use your hands for braking. Make sure that the gap between the tyres and wheel locks complies with given specifications. To readjust, loosen the screw and set the appropriate gap. Then re-tighten the screw (Fig. 9 and 10).

⚠ CAUTION!

After each adjustment of the rear wheels, check the wheel lock gap and re-adjust if necessary.

Fig. 7

Fig. 8

Fig. 9

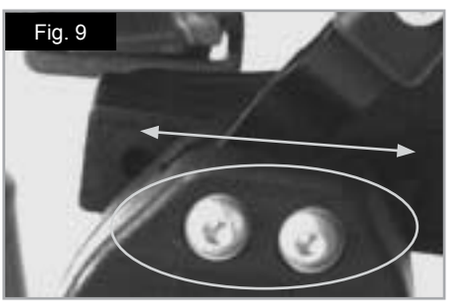
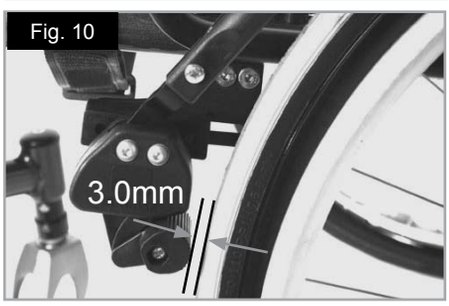


Fig. 10



Brake Lever Extension

The longer lever helps to minimise the effort needed to set the wheel locks.
The brake lever extension is screwed to the brakes. By raising this, it can be flipped forward. (Fig. 11).

⚠ CAUTION!

Mounting the wheel lock too close toward the wheel will result in a higher effort to operate. This might cause the wheel lock extension lever to break!

⚠ WARNING!

Leaning onto the brake lever extension while transferring will cause the lever to break! Splashing water from tyres might cause the wheel lock to malfunction.

Compact Brakes

Compact brakes are underneath the seat sling and are operated by pulling the brakes towards the rear, in the direction of the tyre. For the brakes to operate correctly, they must be pulled fully against the stops, (Fig.12).

⚠ CAUTION!

Incorrect mounting of the wheel lock will result in a higher effort to operate.
This might cause the brake lever extension to break!

Drum Brakes

Drum brakes permit safe and convenient braking for an attendant.
They can also be applied with the aid of a locking lever
The locking lever must snap audibly into place.
Performance of the drum brakes is not dependant on the air pressure inside the tyres.
The wheelchair cannot be pushed when the drum brakes are set.

⚠ WARNING!

Drum brakes should only be adjusted by authorised dealers.

Fig. 11

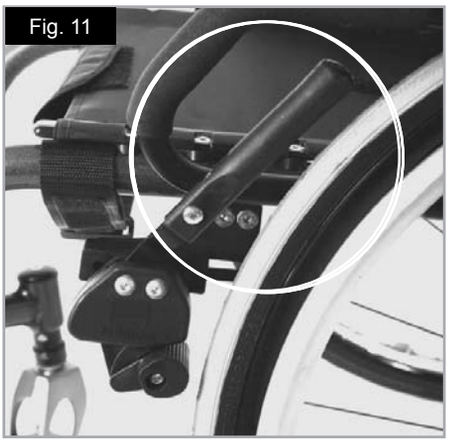


Fig. 12

Fig. 13

Footrests

Various footboards are available on the Xenon. These can flipped up to make it easier to transfer to/from the chair. They are described individually.

Lower leg length

By undoing the clamp screw (Fig.14), you can adjust the lower leg length. Loosen the clamp screw, adjust the tube with the footboard to the desired position.
Tighten clamp screws again (see the page on torque).
Ensure that the plastic push joint is located under the clamp screw in the correct position.

⚠ WARNINGS!

- Do not stand on the footboard! Even if the user is sitting in the chair, there is still a risk of tipping over and injury.
- When transferring, do not stand on the footboard, there is a risk of tipping over and injury.

Platform Footrests

The footplates can be flipped up to make it easier to transfer to and from the chair.
The footplates can also be tilted to six different angles relative to a level surface.
Tighten screw (1) firmly on the outer side.
By removing the clips (2), the footrest can be adjusted to three different positions toward both the front and rear.
Loosen the adjustment screw (3) to change the horizontal position of the footboard.
For this purpose, the footboard must be flipped up, (Fig.15, 16, & 17).
When finished, make sure that all screws have been properly tightened (see the page on torque).
A minimum interval of 2.5 centimetres from the ground should always be maintained.

Fig. 14

Fig. 15

Fig. 16

Fig. 17

Width adjustment of footrests

If the footrest width needs to be adjusted, please undo the screw (1), set the desired width, by positioning 1, 2 or 3 spacers (2) from outer to the inner side and then refit the screws, (Fig.18).

Lightweight footrest

The footboard angle can be adjusted by loosening the screws (2). Side protection panels can be fitted to the footboard using the mounting holes (3) These prevent the feet slipping off accidentally, (Fig.19). Make sure that after any adjustment work, all screws are tightened correctly (see the page on torque).

Width adjustment

To adjust the width of the footboard open the screw (2). Then you can slide in and out the tubes in the holder to adjust the width of the footboard (Fig.19).
Please make sure that the screws are tightened with the correct torque .

Automatic folding footrest

The footrest angle can be adjusted by loosening the screws (1) and turning the footrest. When tightening, please note the torque measurements, (Fig.20).

High-mount footrest

The high-mount footrest is fitted on the inner part of the frame and permits a higher position than a standard footrest (Fig. 21)

Fig. 18

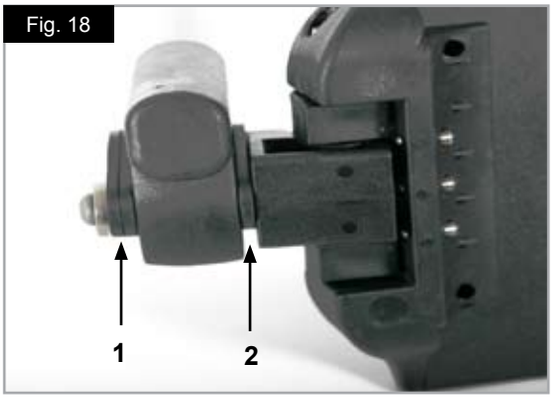


Fig. 19

Fig. 20

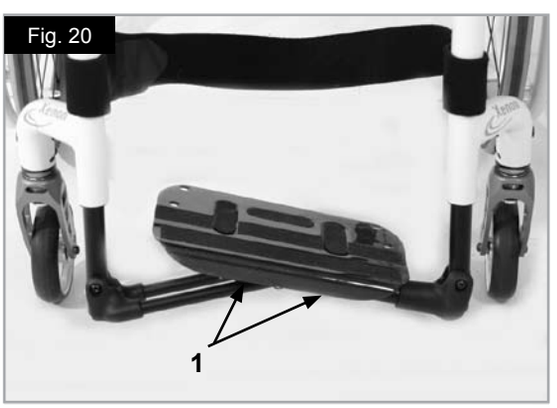


Fig. 21

Options – Seat

Seat sling

Use the Velcro straps under the sling to tighten/loosen the seat sling.

Adjusting the seat height

To change the seat height, please release the Allen screws (1) with an Allen key. Take the axle bracket (2) out of the axle stem (3) and remove or add the spacer (4). Then refit the axle bracket (2) into the axle stem (3) and re-tighten the screws (1), (Fig.22 & 23).
Tighten the 2 Allen screws to 7 Nm (Fig. 22).

NOTE:
An adjustment to the castor angle may be necessary when adjusting the rear seat height.

COG Setting

To carry out COG adjustment, there are basically 2 different options. Fine adjustment can be carried out directly on the axle bracket, as this has an asymmetrical shape. By turning it, you can achieve different settings. To make an adjustment in larger steps, you must change the position of the whole axle stem on the frame.

Changing the axle stem

Using the quick-release axles, take the wheels out of the angle adapter.

Undo both screws (1) and remove these completely. Fit the axle stem in the desired position on the frame, put the screws back into the perforated plate and then re-tighten the screws. When moving the axle stem, also move the seat saddle on the frame, (change the axle stem and the seat saddle). Make sure that the left and right sides are fitted in the same positions. Use the given torque of 7 Nm (Fig. 24/25).

Fig. 22

Fig. 23

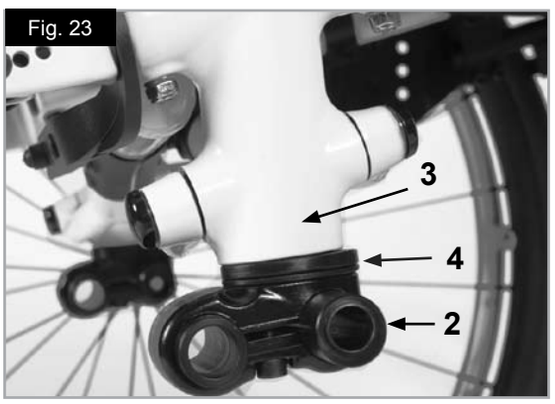


Fig. 24

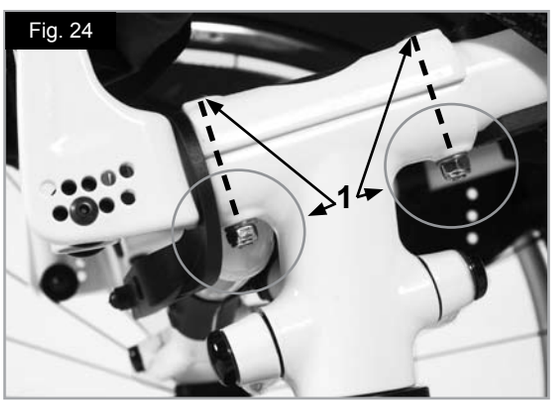
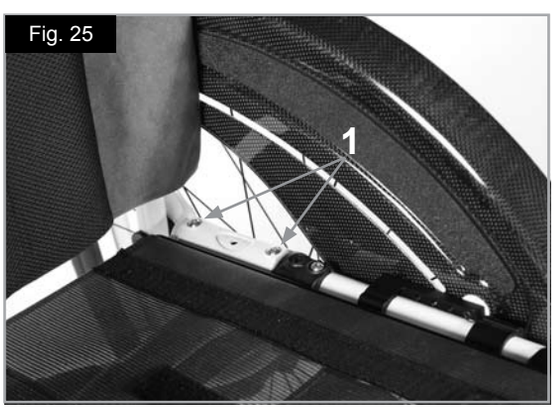


Fig. 25



Rotate the axle bracket (Standard)

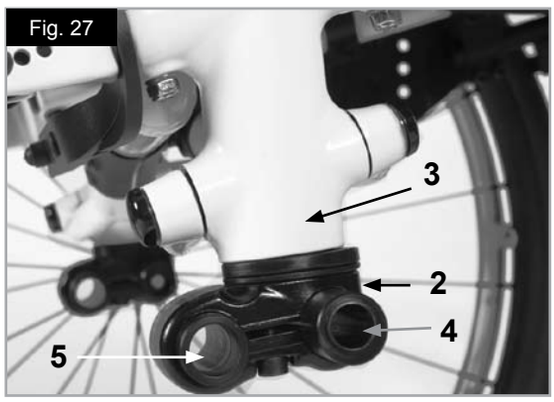
Using the quick-release axles, take the wheels out of the angle adapter.

Undo the screws (1) and remove the axle brackets (2) on both sides of the wheelchair. Rotate the axle bracket by 180° and refit it into the axle stem (3) on the opposite side. Please note that the axle bracket has an asymmetrical shape. The adjustment offers changes in the centre of gravity in 2 cm steps. Use the given torque (Fig. 26/27).

In addition, the standard adapter offers a second position for fitting the angle adapter. When the wheelchair is delivered, this position is covered with a sleeve. To use this position, please undo the two screws (1). Then swap the axle adapter (4) and the sleeve (5) and re-tighten both Allen screws (1), (Fig. 26/27). Please note that the key surfaces on the axle adapter should always point inwards and select the wheelbase as desired (see width adjustment of the rear wheelbase). Use the given torque. For centre of gravity adjustment, please see the technical specifications section at the end of these Directions for use.

Fig. 26

Fig. 27



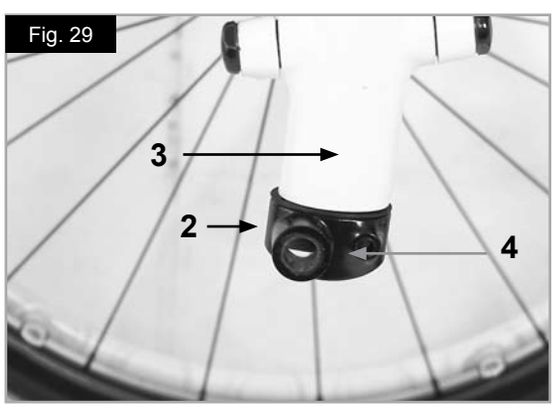
Rotate the axle bracket (lightweight)

Using the quick-release axles, take the wheels out of the angle adapter.

Undo the screw (1) and remove the axle brackets (2) on both sides of the wheelchair. Rotate the axle bracket by 180° and refit it into the axle stem (3) on the opposite side. Please note that the axle bracket has an asymmetrical shape. The nut surface (4) must always face outwards. The adjustment offers changes in the centre of gravity in 2 cm steps. Always use the given torque (Fig. 28/29).

Fig. 28

Fig. 29



Setting the Castor, Castor adapter & Castor fork

If the wheelchair veers slightly to the right or left, or the castors flutter, it may be caused by one or more of the following:

- Forward and/or reverse wheel motion has not been set properly.
- The castor angle has not been adjusted properly.
- Castor and/or rear wheel air pressure is incorrect; the wheels do not turn sufficiently freely.

The optimum adjustment of the castors is required so that the wheelchair runs in a straight line.
Castors should always be adjusted by an authorised dealer. The castor plates must be re-adjusted, and the wheel receiver must be checked every time the rear wheel position has been altered.

Adjusting the castor

To ensure that both forks are set parallel, simply count the teeth visible on both sides. After setting the castor fork, the teeth will guarantee a secure position, allowing an adjustment of 16° in 2° increments, (Fig. 30).
Use the flat side on the front of the castor fork to check for a right-angled position to the ground.

The patented design allows the castor fork to be turned, so that it can be reset at right-angles to the ground when the seat angle is changed.

Setting the directional stability

Release the Allen screws (1) on the underside of the fork. You can then remove the screws (2). You can now turn the black socket (3) left or right.
Left – chair pulls to the left
Right – chair pulls to the right
Then re-tighten the screw (2). Please set a 90° angle from the fork to the floor.
Then re-tighten the screw (1). (Fig. 31).

Fig. 30

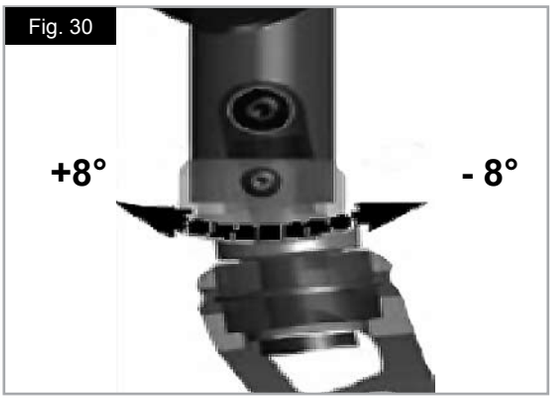
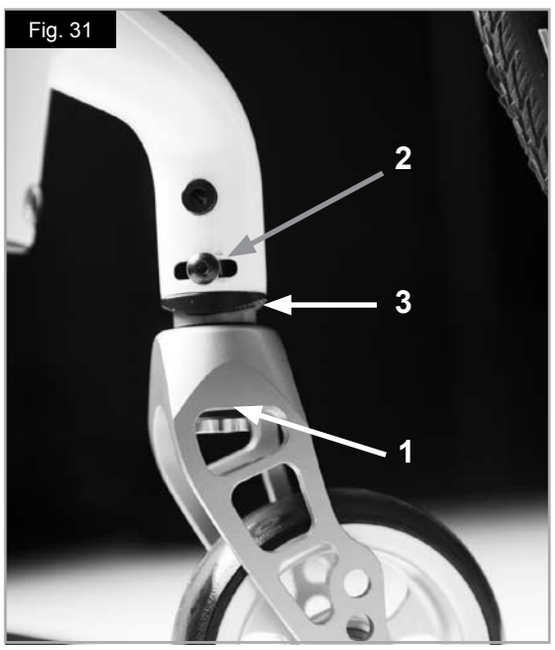


Fig. 31



Options - Backrests

To adjust the back angle, please undo the Allen screw (1) and remove it. Set the desired position and then refit the screw in this position and tighten it to the given torque (Fig. 32).

Fig. 32

Folding backrest

To make it easier to transport the wheelchair, the top half of the backrest can folded down.
To do this, press both levers (1) and fold the backrest down. When folding the backrest back up, please make sure that both sides are firmly interlocked (Fig. 33/34)

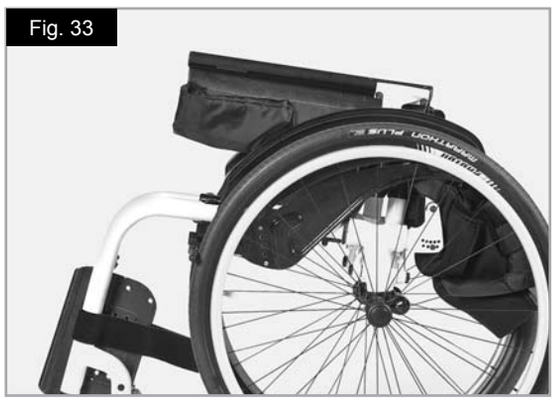


Fig. 33

Adjustable back sling

The adjustable back
sling can be adjusted for tension by using several straps. The back sling upholstery can be accessed from the inside via an opening and can be padded to suit individual tastes, (Fig.35).

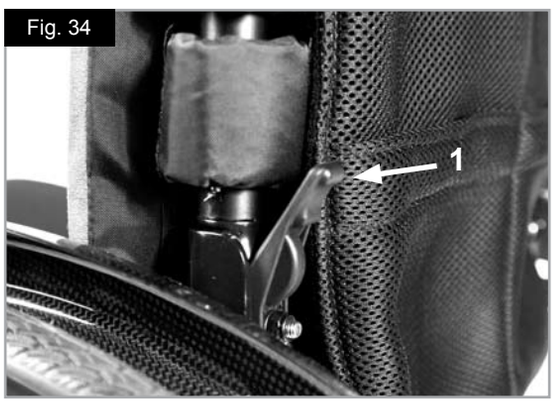


Fig. 34

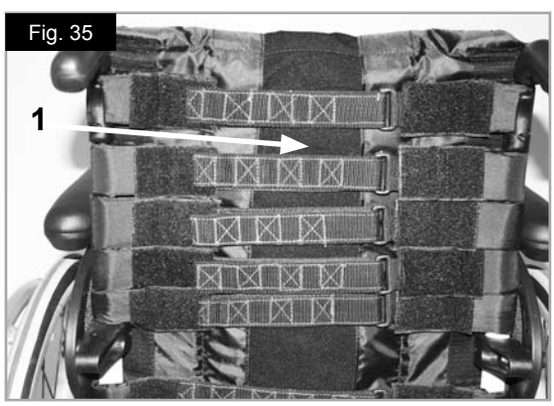


Fig. 35

Options - Wheel Alignment

Adjusting the wheel alignment

NOTE: To achieve the very best movement, the rear wheels must be adjusted to their optimum position, which means correctly adjusting the wheel alignment. To do this, measure the distance between both wheels front and rear to ensure that they are parallel to one another. The difference between both measurements should not exceed 5 mm. The parallel setting can be adjusted by loosening the screws (1) and rotating the axle adapter (2). When finished, make sure that all screws have been properly tightened, (Fig.36). See the page on torque.

⚠WARNING!

Be careful, there is a risk of tipping when adjusting the centre of gravity of the seat!

Adjusting the rear wheelbase width

The rear wheelbase is defined as the distance between the upper side of the rear wheels and the backrest tubes and is factory set (1.25 cm). This must be increased if more space is to be created between the tyres and the optional height-adjustable armrests.

NOTE: When adjusting the rear wheelbase, set first one wheel and then the other. When adjusting the rear wheelbase, move the axle adapter (3) in a telescopic manner into the axle bracket (2) or out of the camber tube. Loosen the screw (1) on the rear axle bracket. Move the axle adapter in or out, until the desired wheelbase is achieved. Tighten the screws to 7 Nm. Repeat the procedure on the right side of the wheelchair and set the same gap on the left side, (Fig. 36 - 37).

Fig. 36

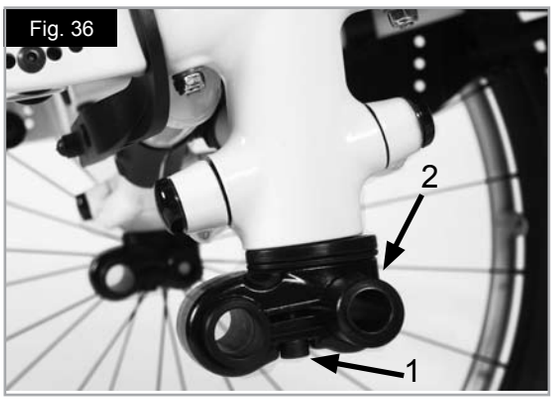
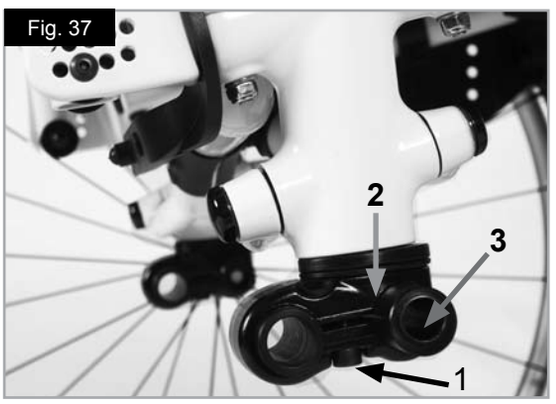


Fig. 37



Options - Side-guards

1. Fitting
a. Push the outer armrest rails down into the receiver which is mounted on the wheelchair frame.
b. The armrest will automatically lock into place.

2. Height adjustment
a. Turn the release lever for height adjustment (2) to the second stop point.
b. Push the armpad up or down to reach the desired height.
c. Set the lever back to the interlocked position against the armrest rails.
d. Push the armpad (4) until the rails click into place securely.

3. Remove the armrest
a. Operate the lever 3 and lift the whole arm.

4. Insert armrest
a. Put the armrest back in the receiver, until the arm clicks into place.

Mounting Components For The Armrest Receiver

Adjusting the armrest receiver
To tighten or loosen the fit of the outer armrest rails in the receiver:
1. Loosen the four set screws for the receiver (D) on the sides of the receiver.
2. Leave the armrest in the receiver (E) and push the receiver together, until the desired adjustment is achieved.
3. Tighten the four screws (D). (144 in-lbs, 16.3 Nm)

Position adjustment
1. Loosen the two clamp screws (10) until the clamp is loose.
2. Push the armrest receiver to the desired position.
3. Tighten.
(Fig.38, 39, 40 and 41).

1. Outer armrest rails
2. Height adjustment of the locking lever
3. Locking lever
4. Armrest pad
5. Transfer bar
6. Side-guard
7. Receiver
8. Adjustment clamp
9. Parts to adjust the receiver
10. Clamp screws

Fig. 38

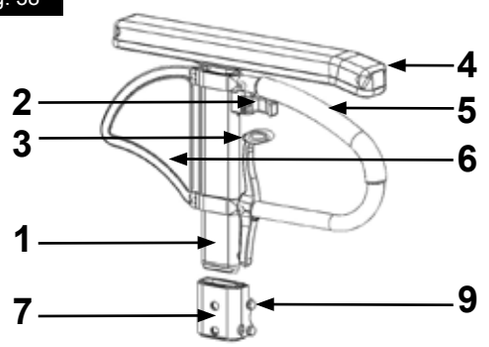


Fig. 39

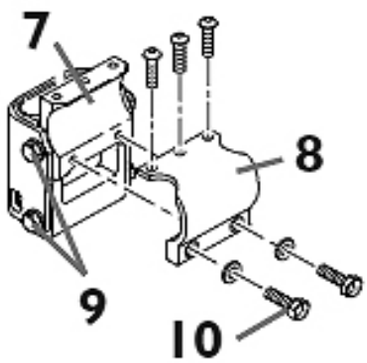


Fig. 40

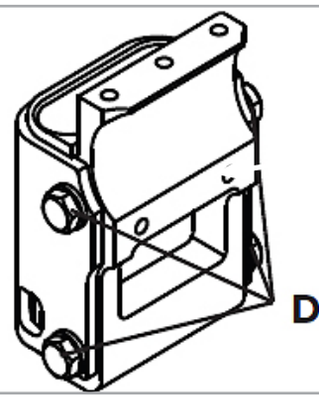
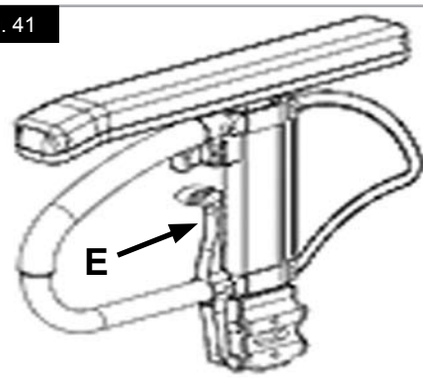


Fig. 41



Options - Side-guards (continued)

Side-guard with clothes protector

The clothes protector prevents clothes getting dirty from spray water, (Fig.42).
You can set the position in relation to the rear wheel by moving the side-guard.
To do this, remove the screws (1 and 2).
After setting to the desired position, re-tighten the screws (see the page on torque).

⚠ WARNING!

Neither the side-guards nor the armrests are to be used for lifting or carrying the wheelchair.

Options - Push Handles

Height-adjustable push handles

These handles are secured with pins to prevent them from sliding out unintentionally. By releasing the tension lever (1) the height of the push handles (2) can be set individually. If the lever is moved, listen to make sure that it clicks into place. The push handle can easily be set to the desired position. The nut on the tension lever determines how tightly the push handles are clamped into place. If the nut is loose after adjusting the tension lever, the push handle will also be too loose. Turn the push handle from side to side before use to make sure that it is clamped into place securely. After adjusting the handle height, always clamp the tension lever (1) securely into place. If the lever is not secure, injuries could result when ascending stairs. (Fig. 43).

⚠ CAUTION!

If the height-adjustable push handles are not fitted properly, there is a risk that these will develop "play" or that they move out of position. Please make sure that the relevant screws are tightened correctly.

Folding push-handles

If the folding push handles are not required, they can be flipped downwards by pushing the button (1). When they are required again, flip the push handles up, until they click into place. (Fig. 44).

Fig. 42

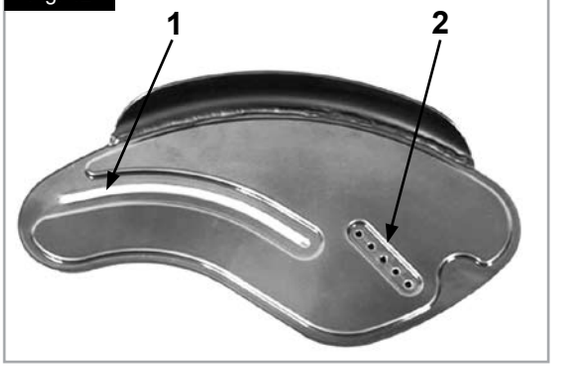


Fig. 43

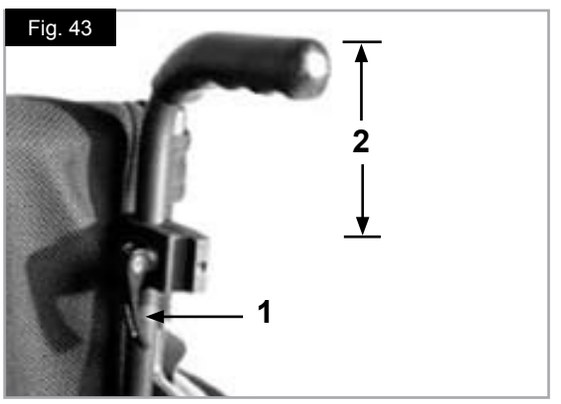
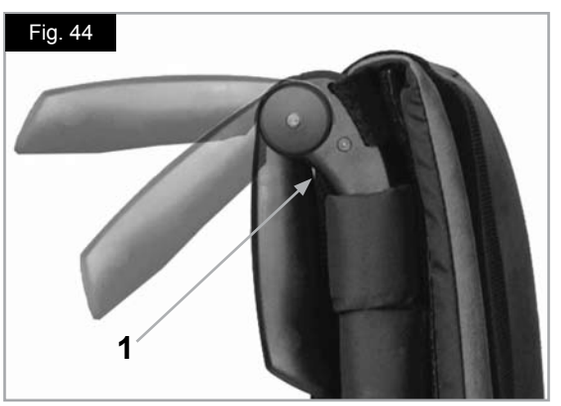


Fig. 44



Options - Crutch Holder

Crutch holder

This device permits crutches to be transported directly on the wheelchair. It has a Velcro loop to fasten crutches or other aids.

⚠ WARNING!

Never try to use or remove the crutches or other aids while moving.

Options - Anti-Tip Tubes

⚠ WARNING!

Sunrise Medical recommends anti-tip tubes are fitted for all chairs.
When fitting anti-tip tubes, use a torque of 7 Nm.

Anti-tip tubes prevent the wheelchair from tipping backwards, providing additional safety for new users and for users familiarising themselves with the operation of the wheelchair.

Plug in Type

Slotting the anti-tip tubes into the clamp

- Press the rear button on the adapter for the anti-tip tube in such a way that both release pins are pulled inwards.
- Slot the anti-tip tubes (1) into the anti-tip tube adapter.
- Rotate the anti-tip tubes downwards, until the release pin clicks into place in the clamp.
- Fit the second anti-tip tube in the same way.

Adjusting the anti-tip tubes

To achieve the correct ground clearance of approximately. 1“ to 2“ (2.5 cm to 5.0 cm), the anti-tip tubes must be set higher or lower:

- Push the release lever for the anti-tip tube in such a way that both release pins are pulled inwards.
- Move the inner tube upwards or downwards in the height-adjustment holes.
- Release the button.
- Fit the second anti-tip tube in the same way.
- Both wheels must be at the same height. (Fig. 46).

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Fig. 45

Fig. 46

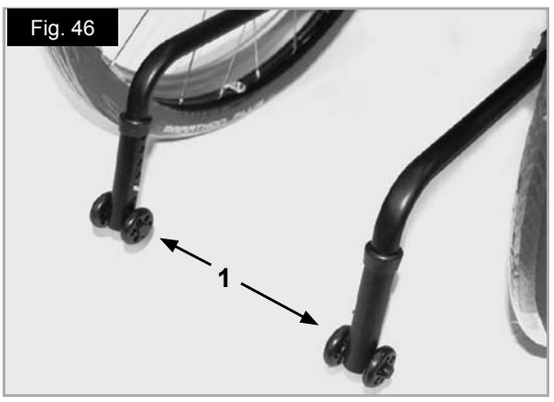


Fig. 47

Swing-away Type

Push down on the top of the anti-tip tube, (1), to bring them into position, (Fig.47).
A 30 - 50 mm gap should be maintained between the anti tip wheels and the ground.
The anti-tips can also be swung into a forwards position. The anti-tips must always be in the forward position when negotiating large obstacles, (such as kerbs), to prevent them from interfering with the manoeuvre.

⚠ DANGER!

If the anti-tip tubes are not fitted, or have been fitted incorrectly, there is a risk of tipping over and of injury.

Options - Stabilising Bar

Folding stabilising bar

This bar is used to stabilise the backrest. To be able to fold the wheelchair, the release lever must be pushed inwards (Fig. 48) or released and the stabilising must be flipped downwards.
When unfolding the wheelchair, please make sure that the stabilising bar is locked into position.

Options - Transit Wheels

Transit wheels

Transit wheels should be used whenever your wheelchair would be too wide if the rear wheels were fitted, (Fig.49). After the rear wheels have been removed with the aid of the quick-release axles, the transit wheels can immediately be used to continue riding, (fig.50).
The transit wheels are mounted so that they are approximately 3 cm above the ground when not in use. They are therefore, out of the way when riding, transporting, or when tipping to pass over obstacles, (Fig51).
Make sure that the transit wheels are always mounted in position "B".
This will ensure that the wheelchair has a stable base, (Fig52).

⚠ DANGER!

- Without rear wheels, your wheelchair has no wheel locks.
- There is a risk of the chair tipping backwards.

Fig. 48

Fig. 49

Fig. 50

Fig. 51

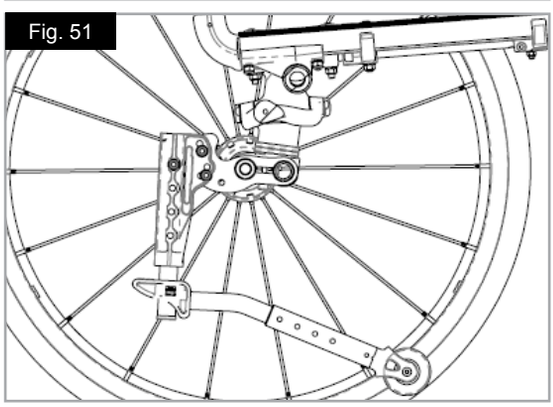
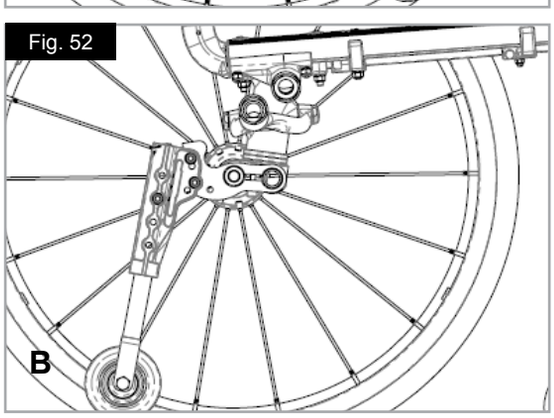


Fig. 52



Options - Pelvic Restraint Belt

⚠ WARNINGS!

- Before using the wheelchair make sure that the pelvic restraint belt is fitted.
- The pelvic restraint belt must be checked on a daily basis to ensure it is free from any obstruction or adverse wear.
- Always make sure that the pelvic restraint belt is correctly secured and adjusted prior to use.

⚠ DANGER!

If the strap is too loose, this could cause the user of the wheelchair to slip down and risk suffocation or serious injury.

The pelvic restraint belt is fitted to the wheelchair as shown in Fig. 53 to 58. The seat belt comprises two halves. They are fitted using the existing seat stay retaining bolt fitted through the eyelet on the belt. The belt is routed under the rear of the side panel. (Fig. 53).

Adjust the pelvic restraint belt to suit the user's needs as follows:

Adjust the belt position so buckles are in the centre of the seat. (Fig. 54).

Feed free belt back through male buckle and slide adjusters.
Ensure belt is not looped at male buckle, (Fig.55).

Feed free belt through slide adjusters and male buckle to provide more belt length, (Fig.56 to 58).

Fig. 53

Fig. 54

Fig. 55

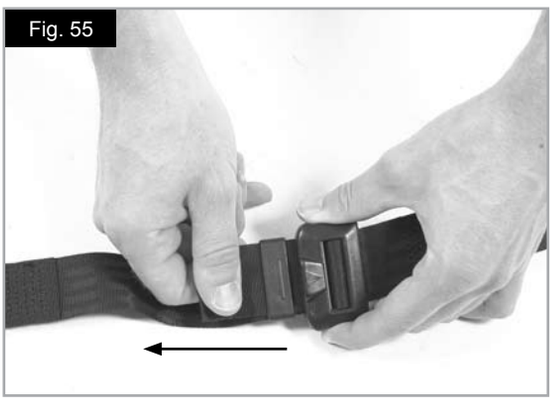
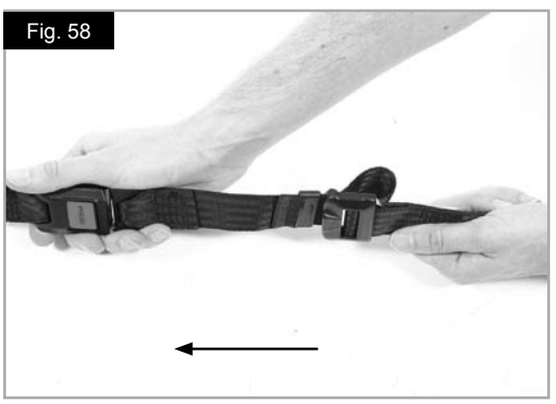


Fig. 56

Fig. 57

Fig. 58



Options - Pelvic Restraint Belt continued

When fastened check space between the pelvic restraint belt and user. When correctly adjusted it should not be possible to insert more than the flat of the hand between the pelvic restraint belt and the user, (Fig. 59).

The pelvic restraint belt should be fixed so that the belt sits at an angle of 45 degrees across the user's pelvis. The user should be upright and be as far back as possible in the seat when correctly adjusted. The pelvic restraint belt should not allow the user to slip down in the seat, (Fig. 60).

To fasten buckle:
Firmly push male buckle into female buckle, (Fig.61).

To release buckle:
Press the RED button in the centre of the buckle then pull the two halves gently apart, (Fig.62).

NOTE: If you have any questions on the use and operation of the pelvic restraint belt, the please contact your wheelchair dealer, carer or attendant.

⚠ WARNINGS!

- The pelvic restraint belt must only be fitted or adjusted by an approved Sunrise Medical dealer / agent.
- The pelvic restraint belt must be checked on a daily basis to ensure it is adjusted correctly and free from any obstruction or adverse wear.
- Sunrise Medical does not recommend the transportation of a person in a vehicle with the pelvic restraint belt as a restraint system.

See the transit brochure from Sunrise Medical for further information on transportation.

Maintenance:

Check pelvic restraint belt, and securing components, at regular intervals for any sign of frays or damage. Depending on usage, it may need to be replaced.

⚠ WARNING!

The pelvic restraint belt should be adjusted to suit the end user as detailed above Sunrise Medical also recommends that the length and fit of the belt is checked on a regular basis to reduce the risk of the end user inadvertently re-adjusting the belt to an excessive length.

Fig. 59

Fig. 60

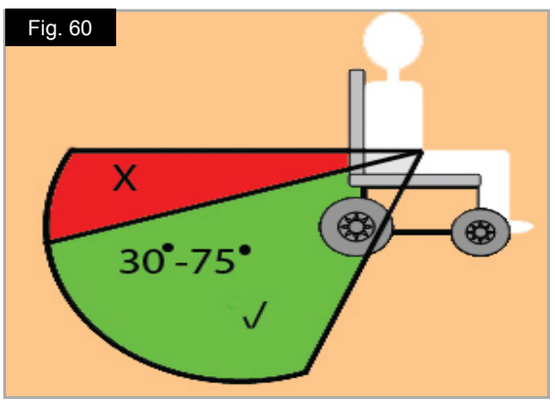


Fig. 61

Fig. 62

Daily Checks

CAUTION!

As the user, you are the first person to notice any possible defects. We therefore recommend that before each use, you check the items in the following list:

- Check for correct tyre pressures
- Check that the brakes work correctly
- Check that all removable parts are secure, e.g. armrest, footrest, quick-release axle etc.
- Check for visible damage e.g. on the frame, backrest, seat sling and back sling, wheels, footplate etc

If there is any damage or malfunction, please contact your authorised dealer.

Tyres and Mounting

WARNING!

Always make sure that you maintain the correct tyre pressure (min. 3.5 bar) as this can have an effect on wheelchair performance.

If the tyre pressure is too low, rolling resistance will increase, requiring more effort to move the chair forward. Low tyre pressure also has a negative impact on manoeuvrability.

WARNING!

If the tyre pressure is too high, the tyre could burst.

The correct tyre pressure for a given tyre is printed on the surface of the tyre (min. 3.5 bar).
Tyres can be mounted the same way as an ordinary bicycle tyre.
Before installing a new inner tube, you should always make sure that the base of the rim and interior of the tyre
are free of foreign objects.
Check the pressure after mounting or repairing a tyre . It is critical to your safety and to the wheelchair's performance that regulation air pressure be maintained and that tyres are in good condition.

Maintenance and Care

• Check the tyre pressure every 4 weeks. Check all tyres for wear and damage.
• Check the brakes approximately every 4 weeks to make sure that they are working properly and are easy to use.
• Change tyres as you would an ordinary bicycle tyre.
• All of the joints that are critical to using your wheelchair safely are self-locking, nyloc nuts. Please check every three months to make sure that all bolts are secure (see the section on torque). Nyloc nuts should only be used once and should be replaced after use.
• Please use only mild household cleansers when your wheelchair is dirty. Use only soap and water when cleaning the seat sling.
• If your wheelchair should ever get wet, please dry it afterwards.
• A small amount of sewing-machine oil should be applied to quick-release axles approximately every 8 weeks.
• Depending on the frequency and type of use, we recommend taking your wheelchair to your authorised dealer every 6 months to have it maintained by trained personnel.

CAUTION!

Sand and sea water (or salt in the winter) can damage the bearings of the front and rear wheels. Clean the wheelchair thoroughly after exposure.
The following parts can be removed and sent back to the manufacturer/dealer for repair:
• Rear wheels:
• Armrest
• Footrests
• Anti-Tip Tubes

These components are available as spare parts. For further information,please see the spare parts catalogue.

Maintenance and Care continued

Hygiene measures when being re-used:

Prior to the wheelchair being re-used, it must be carefully prepared.

⚠WARNING!

All surfaces which come into contact with the user must be treated with a disinfection spray.
To do this, you must use a disinfectant from the DGHM list, e.g. Antifect Liquid (Schülke & Mayr) for rapid alcohol-based disinfection for medical products and medical devices, which must be disinfected quickly.
Please take into account the manufacturer's instructions for the disinfectant you are using.
In general, a complete disinfection cannot be guaranteed on seams. We therefore recommend that you dispose of seat and back slings to avoid microbacterial contamination with active agents according to § 6 infection protection law.

Troubleshooting

Wheelchair pulls to one side
- Check tyre pressure
- Check to make sure wheel turns easily (bearings, axle)
- Check the castor angle
- Check to make sure both castors are making proper contact with the ground

Castors begin to wobble
- Check the castor angle
- Check to make sure all bolts are secure; tighten if necessary (see the section on torque)
- Check to make sure both castors are making proper contact with the ground

Wheelchair / cross-tube assembly does not snap into position in the seat saddle
- Chair is still new, i.e., the seat or backrest upholstery is still very stiff. This will improve with time.

Wheelchair is difficult to fold up
- Adjustable backrest upholstery is too stiff. Loosen it accordingly.

Wheelchair squeaks and rattles
- Check to make sure all bolts are secure; tighten if necessary (see the section on torque)
- Apply small amount of lubrication to spots where movable parts come in contact with one another

Wheelchair begins to wobble
- Check angle at which castors are set
- Check tyre pressure
- Check to see if rear wheels are adjusted differently.

Disposal / Recycling of Materials

NOTE: If the wheelchair has been made available to you as part of a charity or medical loans scheme, then it may not belong to you . If it is no longer required, then follow the instructions to return it as given by the organisation that made the wheelchair available to you.

In the following section, there is a description of the materials used on the wheelchair, in view of the disposal or recycling of the wheelchair and its packaging.
There may also be special local regulations in force with regard to disposal or recycling, these must be taken into account when disposing of your wheelchair. (This can include the cleaning or decontamination of the wheelchair prior to disposal).

Aluminium: Castor forks, wheels, chair sideguards, armrest frame, footrest, push handle
Steel: securement points, quick-release axle
Plastic: Handles, tube stoppers, castors, footplates, armpads and tyres
Packaging: Plastic bags made of soft polyethylene, cardboard
Upholstery: Polyester fabric with PVC coating and highly-flammable foam.

Disposal or recycling should be carried out by a disposal company or at a public disposal point. You can also return your wheelchair to your dealer for disposal.

Nameplate

The nameplate is located on either the cross-tube assembly or the transverse frame tube, as well as on a label in the owner's manual. The nameplate indicates the exact model designation and other technical specifications. Please provide the following pieces of information whenever you have to order replacement parts or to file a claim:

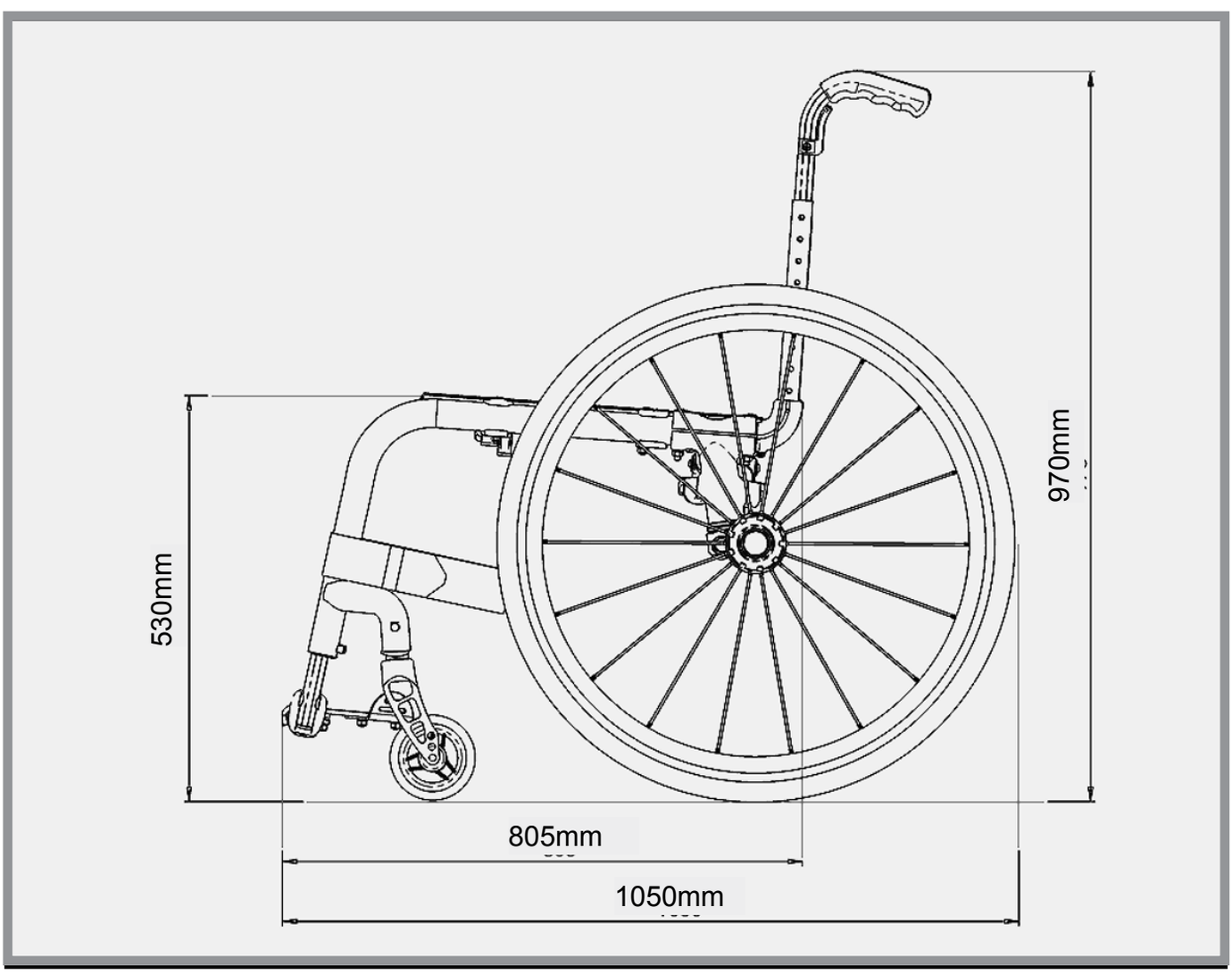
- Serial number
- Order number
- Month/Year

Technical Specifications

Overall width:
With standard wheels including hand rims, close mount:
- in combination with aluminium side guard: SW + 170 mm
- in combination with plastic clothes protector: SW + 190 mm
- With extra-narrow hand rim fitting, overall width is reduced by 20 mm.
- With standard wheels including hand rims and 4° camber: SW + 250 mm

Overall length:
910 mm with SD 480 mm
Overall height:
1120 mm with BH 450 mm
Folded dimensions:
- with rear wheels approximately 270 mm
- without rear wheels approximately 250 mm

Weight in kg:
- Overall from 8.5kg
- Transportation (without footrest, wheels, side guard) 6kg
- Side guard (unit) 1.3 kg
- Wheels (unit) 2.2 kg



Technical Specifications continued

Maximum weight limit:
Xenon up to a load of 125 kg

Seat heights:
The choice of frames, forks and castors as well as the size of the rear wheel (610mm (24")), (635mm (25")); determines what seat heights are possible.

Table of Minimum and Maximum Values

Parameter	Min.	Max.	Parameter	Min.	Max.
Overall length with footrest	770 mm	1050 mm	Seat surface angle	0°	15°
Overall width	620 mm	760 mm	Effective seat depth	340 mm	500 mm
Folded length	N/A	N/A	Effective seat width	320 mm	460 mm
Folded width	270 mm	310mm	Seat height at the front edge	430 mm	570 mm
Folded height	N/A	N/A	Backrest angle	75°	108°
Total weight	8.5 kg	13.0 kg	Back height	250 mm	475 mm
Weight of the heaviest individual part	-	2.1 kg with 610mm (24") rear wheel	Distance from the footrest to the seat	220 mm	520 mm
Static stability - downhill	10°	10°	Angle from leg to seat	92°	100°
Static stability - uphill (with anti-tip tube)	10°	10°	Distance from the armrest to the seat	N/A	N/A
Static stability - sidewards	10°	10°	Front position of the armrests	N/A	N/A
Dynamic stability - uphill power consumption	N/A	N/A	Handrim diameter	540 mm	567 mm
Overcoming obstacles	N/A	N/A	Horizontal axle position	+ 30 mm	+ 13 mm

The wheelchair conforms to the following standards:
1. Requirements and test methods for static, impact and fatigue strengths (ISO 7176-8)
2. Flammability resistance of upholstered parts in accordance with ISO 7176-16 (EN 1021-1/2)

Technical Specifications continued

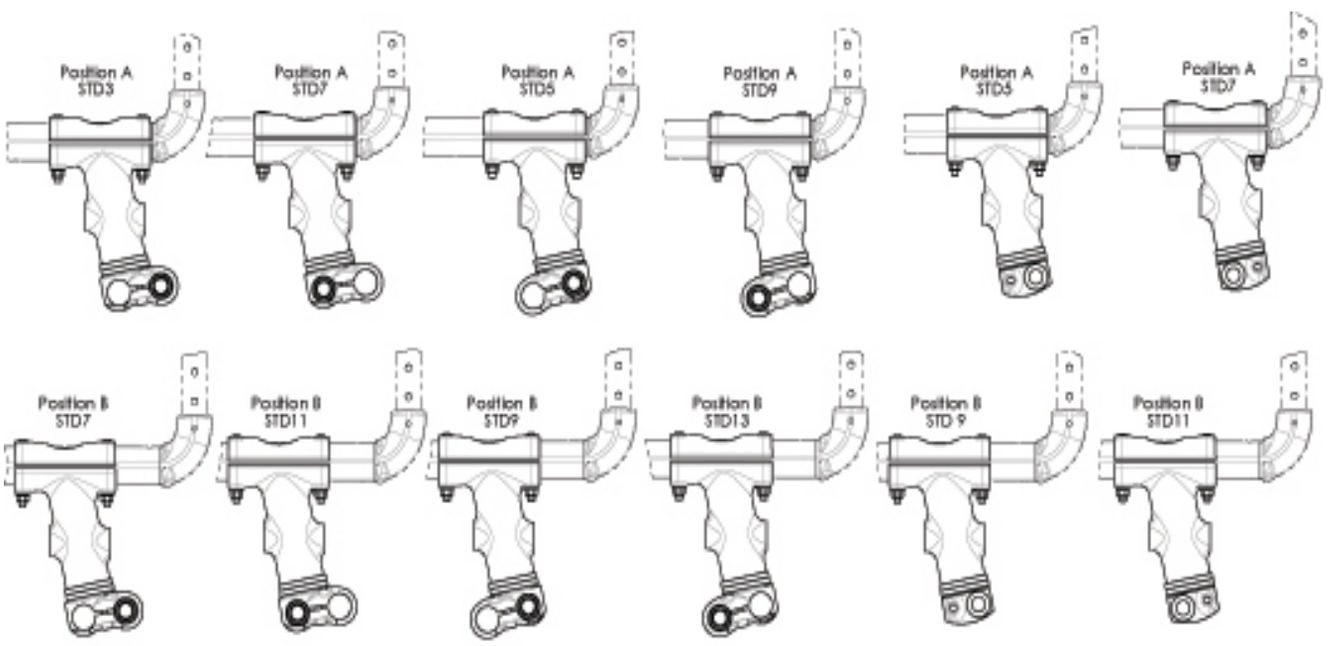
Castor	Fork	Type of frame	Front seat height in mm	Rear seat height in mm
76mm (3")	98 mm x 32 mm	low	430	430 - 400
			440	440 - 400
			450	450 - 390
		high	470	470 - 380
			480	480 - 380
			490	490 - 380
	111 mm x 32 mm	low	440	440 - 400
			450	450 - 390
			460	460 - 380
		high	480	480 - 380
			490	490 - 380
			500	500 - 400
102mm (4")	98 mm x 32 mm	low	440	440 - 390
			450	450 - 380
			460	460 - 380
		high	480	480 - 380
			490	490 - 380
			500	500 - 390
	111 mm x 32 mm	low	450	450 - 380
			460	460 - 380
			470	470 - 380
		high	490	490 - 380
			500	500 - 380
			510	510 - 370
	111 mm x 45 mm	low	450	450 - 390
			460	460 - 380
			470	470 - 380
		high	490	490 - 380
			500	500 - 380
			510	510 - 370
	123 mm x 45 mm	low	450	450 - 390
			460	460 - 380
			470	470 - 380
			480	480 - 380
		high	490	490 - 380
			500	500 - 380
			510	510 - 390
			520	520 - 400

Technical Specifications continued

Castor	Fork	Type of frame	Front seat height in mm	Rear seat height in mm
127mm (5")	98 mm x 32 mm	low	460	460 - 380
			470	470 - 380
		high	500	500 - 380
			510	510 - 390
	111 mm x 32 mm	low	460	460 - 380
			470	470 - 380
			480	480 - 380
		high	500	500 - 380
			510	510 - 390
			520	520 - 400
	111 mm x 45 mm	low	470	470 - 380
			480	480 - 380
		high	510	510 - 390
			520	520 - 400
	123 mm x 45 mm	low	470	470 - 380
			480	480 - 380
			490	490 - 380
			500	500 - 380
		high	510	510 - 390
			520	520 - 400
			530	530 - 410
			540	540 - 420
152mm (6")	123 mm x 45 mm	low	500	500 - 380
			510	510 - 390
		high	540	540 - 420
			550	550 - 430

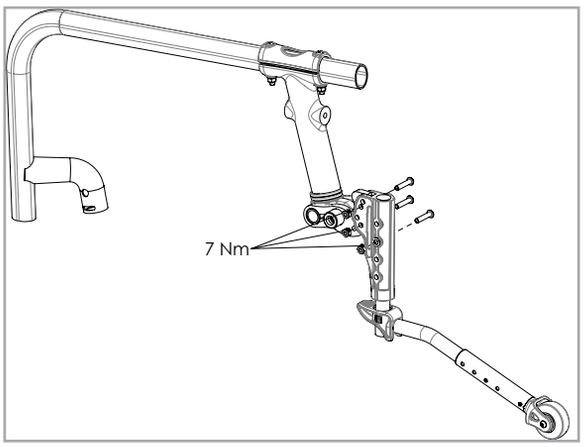
Castor	Fork	Type of frame	Front seat height	Rear seat height
76mm (3")	FROGLEG	low	480	480 - 380
			490	490 - 380
			500	500 - 380
		high	520	520 - 400
			530	530 - 410
			540	540 - 420
102mm (4")	FROGLEG	low	490	490 - 380
			500	500 - 380
			510	510 - 390
		high	530	530 - 410
			540	540 - 420
			550	550 - 430
127mm (5")	FROGLEG	low	510	510 - 390
			520	520 - 400
		high	550	550 - 430
			560	560 - 440
152mm (6")	FROGLEG	low	530	530 - 410
		high	570	570 - 450

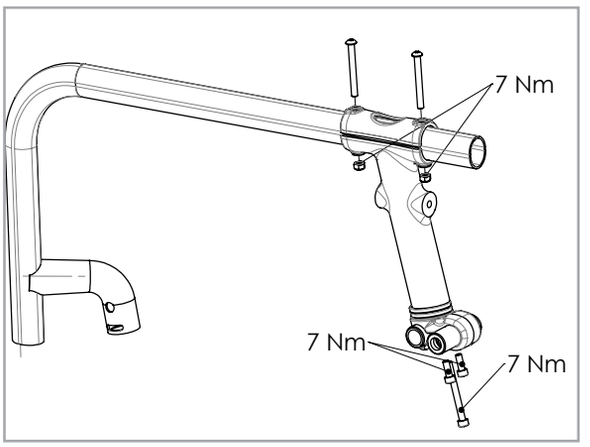
Centre of Gravity Matrix

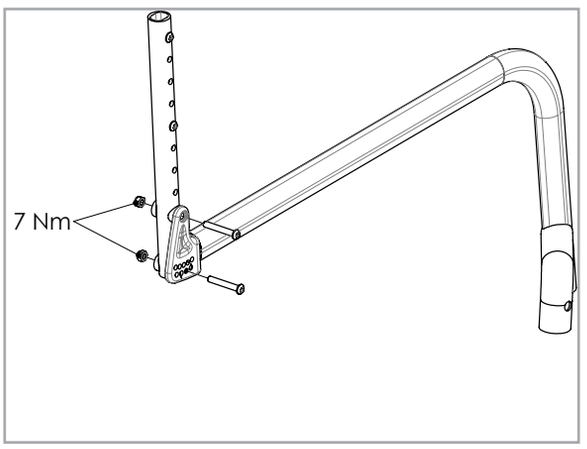


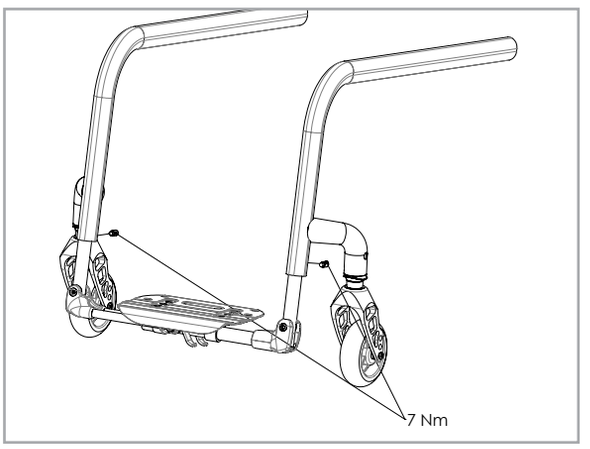
Torque Settings

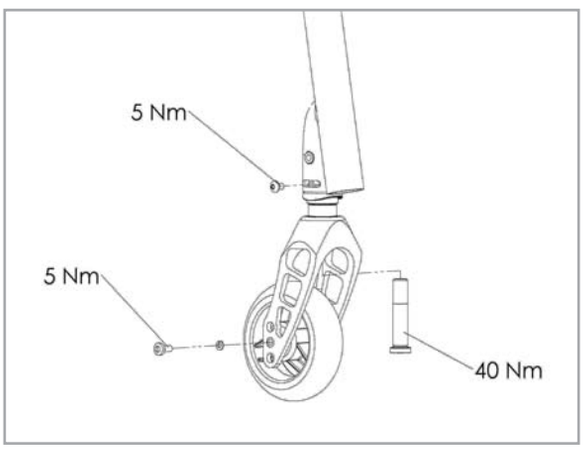
NOTE: If no specific torque information is given, the generic torque value for M6 screws is 7.0 Nm

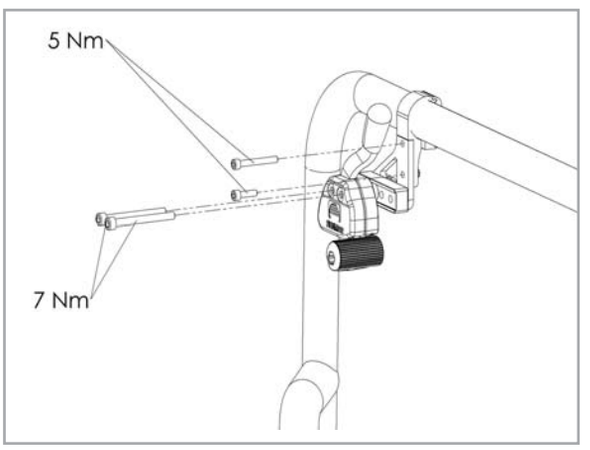


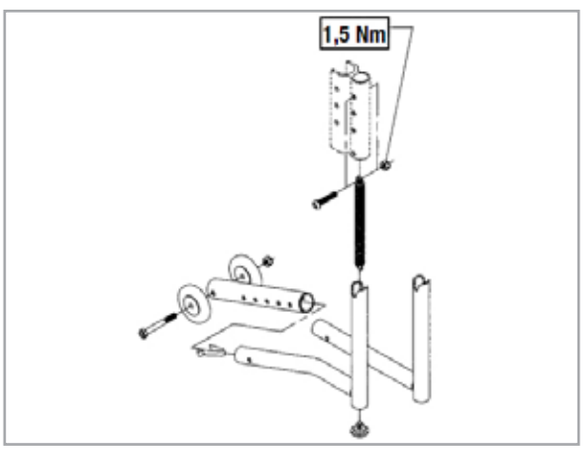


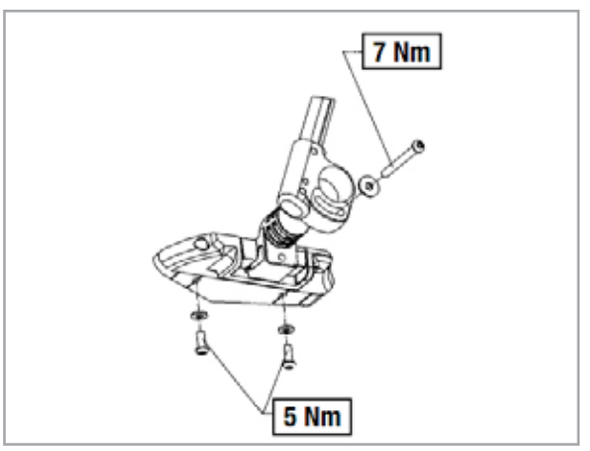












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Dealer signature and stamp

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